

# Cytometer Performance Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 01/14/2019 10:52 AM  
**Cytometer Baseline:** 01/02/2019 10:47 AM  
**P/F:** Pass

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 72756 **Expiration Date:** 10/31/2019  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|--------|----------|-------------|--------------|---------------------|---------------------------|-------------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 125000       | 123629              | -2                        | 2.17                    | 123742                  | 2.17                 |
| Blue   | F        | SSC         | 125000       | 123540              | -2                        | 3.89                    | 124315                  | 3.78                 |
| Blue   | E        | FITC        | 16694        | 16166               | -4                        | 3.77                    | 374                     | 21.86                |
| Blue   | D        | PE          | 32792        | 31764               | -4                        | 3.02                    | 697                     | 15.87                |
| Blue   | B        | PerCP-Cy5-5 | 44451        | 43956               | -2                        | 4.61                    | 1202                    | 23.02                |
| Blue   | A        | PE-Cy7      | 33645        | 33956               | 0                         | 7.03                    | 624                     | 46.46                |
| Red    | C        | APC         | 47008        | 46310               | -2                        | 3.14                    | 1793                    | 13.56                |
| Red    | A        | APC-Cy7     | 32298        | 31695               | -2                        | 3.01                    | 800                     | 13.95                |
| Violet | B        | V450        | 8961         | 8633                | -4                        | 4.61                    | 494                     | 13.93                |
| Violet | A        | V500        | 32726        | 31792               | -3                        | 4.34                    | 769                     | 10.86                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr     | Br   | P/F  |
|--------|----------|-------------|-------------------------|----------------------|------|--------|--------|------|------|
| Blue   | FSC      | FSC         | 19864                   | 4.23                 | 604  | -9     | N/A    | N/A  | Pass |
| Blue   | F        | SSC         | 56567                   | 3.15                 | 574  | 6      | N/A    | N/A  | Pass |
| Blue   | E        | FITC        | 62                      | 70.60                | 561  | -2     | 0.0154 | 100  | Pass |
| Blue   | D        | PE          | 138                     | 57.39                | 565  | -1     | 0.1517 | 343  | Pass |
| Blue   | B        | PerCP-Cy5-5 | 225                     | 54.98                | 668  | -3     | 0.0073 | 37   | Pass |
| Blue   | A        | PE-Cy7      | 122                     | 113.91               | 725  | -1     | 0.0093 | 20   | Pass |
| Red    | C        | APC         | 410                     | 28.51                | 612  | -1     | 0.0185 | 91   | Pass |
| Red    | A        | APC-Cy7     | 199                     | 31.64                | 582  | -3     | 0.0047 | 1243 | Pass |
| Violet | B        | V450        | 72                      | 67.39                | 479  | -7     | 0.0490 | 2513 | Pass |
| Violet | A        | V500        | 109                     | 34.44                | 489  | -7     | 0.0206 | 567  | Pass |

## Specifications

**PMTV Delta from baseline:** 50 (BD)  
**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.98 - 71.98    | N/A          | N/A                     | -32.52                 | -32.24                          | 1.11                |
| Blue   | 20.36      | 16.27 - 24.41    | 1.26         | 0.99 - 1.49             | 0.00                   | 0.00                            | 1.49                |
| Red    | 16.46      | 13.60 - 20.40    | N/A          | N/A                     | 29.45                  | 29.85                           | 1.21                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 10032

## Fluidics

FACSFlow Pressure: 3.90  
Spec.: 3.80 - 4.00  
Sample Pressure: 3.60

Comments